Docket No. P07 42719

Declaration For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL DYSPLASIA

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Application Numb	oer 09/399,212		
and was amende	d on		
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known to me to be	material to patentab	pility as defined in Title 37, Code of	Enderal Pagulations
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Section 1.56. I hereby claim foreign Section 365(b) of an any PCT International listed below and have	gn priority benefits un ny foreign application al application which do e also identified below or PCT International		Section 119(a)-(d) or , or Section 365(a) or han the United States oplication for patent or
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Sole or first inventor's signature	Date
Residence	11/17/49
538 14th STREET, SANTA MONICA, CA 90402	
Citizenship UNITED STATES	
Post Office Address SAME AS ABOVE	
Full name of second inventor, if any MUHAMMAD FAIYAZ-UL-HAQUE	
Second inventor's signature	Date
Residence HOUSE #250, STREET #31, SECTOR 1-8/2, ISLAMABAD, PAKISTAN	
Citizenship PAKISTAN	_
Post Office Address SAME AS ABOVE	
Full name of third inventor, if any LILY KING	
Third inventor's signature	Date
Residence 5766 WEST OLYMPIC BOULEVARD, LOS ANGELES, CA 90036	(1-1 7-9
Citizenship UNITED STATES	
Post Office Address SAME AS ABOVE	
Full name of fourth inventor, if any DEBORAH KRAKOW	
Fourth inventor's signature Outporch Kroulow	Date \\/\7 / 9 9
Residence 10828 WELLWORTH AVENUE, LOS ANGELES, CA 90024	
Citizenship UNITED STATES	
Post Office Address SAME AS ABOVE	

Docket No. P07 42719

Declaration For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL DYSPLASIA

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Application Number			
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		rstand the contents of the above in endment referred to above.	dentified specification
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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July 2, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Daniel H. Cohn, Muhammad Faiyaz ul Haque, Lily M. King and

Deborah Krakow

Serial No.

UNASSIGNED

Filed:

Herewith

For:

3-PHOSPHOADENOSINE-5-PHOSPHOSULFATE (PAPS) SYNTHETASE PROTEINS AND METHODS FOR TREATING

OSTEOARTHRITIC DISORDERS

Examiner:

Unknown

Unit:

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DECLARATION UNDER 37 C.F.R. § 1.821 (f) (g)

CERTIFICATE OF EXPRESS MAILING

I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1 10 ON THE DATE AND LABEL INDICATED BELOW AND IS ADDRESSED TO BOX PATENT APPLICATION, THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D C 20231---

July 2, 2001

Date of Deposit and Signature

Ann Weiss

EL 900688417 US

Express Label No.

BOX PATENT APPLICATION

Assistant Commissioner for Patents Washington, D. C. 20231

Dear Sir:

I, Nisan A. Steinberg, Ph.D., hereby state, as required by 37 C.F.R. § 1.821(f), that the content of the paper and computer readable copies of the enclosed sequence listing, submitted in accordance with 37 C.F.R. § 1.821(c) and (e), respectively, are to the best of my knowledge, the same, and are the same as the sequences disclosed in the application as filed.

I hereby also state, as required by 37 C.F.R. § 1.821(g), that to the best of my knowledge, the enclosed submission includes no new matter.

Respectfully submitted,

Nisan A. Steinberg, Ph.D.

Registration No. 40,345

SIDLEY AUSTIN BROWN & WOOD

555 West Fifth Street

Los Angeles, California 90013-1010

Ofc: 213/896-6665 Fax: 213/896-6600

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Daniel H. Cohn, Muhammad Faiyaz ul Haque, Lily M. King, and

Deborah Krakow

Serial No.

09/399,212

Filed:

September 17, 1999

For:

GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL

DYSPLASIA

Examiner:

Unassigned

Unit:

1643

CERTIFICATE UNDER 37 C.F.R. 3.73(b) ESTABLISHING RIGHT OF ASSIGNEE TO PROSECUTE

Assistant Commissioner for Patents

Washington, D. C. 20231

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED
WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN
BIVELOPE ADDRESSED TO THE ASSISTANT COMMISSIONER EPI PATENTS
WASHINGTON, D. C. 20231, ON

DATE

AND WEISS

(DATE, OP, SIGNATIER)

Sir:

Cedars-Sinai Medical Center

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of chain of title from the inventor, of the patent application identified above, to the current assignee as shown below:

 From: Daniel H. Cohn, Muhammad Faiyaz ul Haque, Lily M. King, and Deborah Krakow
 To: Cedars-Sinai Medical Center

The document is being filed herewith with the the Patent and Trademark Office. A copy thereof is attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date:

Name: Peter E. Braveman, Esq.

Title:

Senior Vice President for Legal Affairs and General Counsel

Signature:

CERTIFICATE OF M Applicant(s): Daniel H. C	IAILING L. FIRST CLAS	SS MAIL (37 CFR 1.8)	Docket No. P07 42719
Serial No. 09/399,212	Filing Date 09/17/99	Examiner Not Assigned	Group Art Unit 1643
Invention: GENETIC MA	ARKER FOR SPONDYLOEPIM	IETAPHYSEAL DYSPLASIA	
I hereby certify that this	•	ion) Claiming Small Entity Status (Identify type of correspondence)	to a address of the The
Assistant Commissione	er for Patents, Washington, D.C.	vice as first class mail in an enver . 20231 on 11/19/99 (Date)	·
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Applicant/ Datentee:					
Invention:	Invention: GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL DYSPLASIA				
I hereby dec	clare that I am an offic	ial empowered to act on b	pehalf of the nonprofit organizat	ion ider	ntified below:
NAME OF C	ORGANIZATION:	CEDARS-SINAI MEDIO	CAL CENTER		
ADDRESS	OF ORGANIZATION:	8700 BEVERLY BOULI			
		LOS ANGELES, CA 90	048-1869		<u>.</u>
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3			Code (26 U.S.C. 501(a) and 50		
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37 C.F.R. 1	Name of State: Citation of Statute: I hereby declare that the above-identified nonprofit organization qualifies as a nonprofit organization as defined in 37 C.F.R. 1.9(e) for purposes of paying reduced fees to the United States Patent and Trademark Office regarding the invention described in:				
۵	the specification to b	e filed herewith.			
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	the patent identified a	above.			
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	ıch person,		organization e or organizatior	xists. is listed below.		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE revocation of prior powers and new power of attorney

Assistant Commissioner for Patents Washington, DC 20231

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Cadara-Sinai Medical Center, having a piece of business at 8700 Beverly Boulevard, Suite 2112, Los Angeles, California 80048-1866, and being the owner of the antire right, title and interest to the patent applications identified on the attached list, hereby revokes all previously given powers of attorney for the applications listed on attached sheet, and hereby appoints the following:

Attomer	Recognitional
Edward G. Poplewski	33,43 0
Denies L. McKenzie	43,790
Nisan A. Steinberg, Ph.D.	40,34 8

all of whom are members in good standing of a state ber, and are members of the law firm of Sidley Austin Brown & Wood, 555 West Fifth Street, Los Angeles, California 90013-1010 at (213) 866-6000, its representatives with full power of substitution and revocation, to transact all business in the United States Patent and Trademark Office connected therewith.

Effective immediately, please change the correspondence address related to the identified patent applications on the attached sheet:

from: Pretty, Schroeder, et al. 444 South Flower Street Los Angeles, California 90071 to:

Edward G. Poplawald, Esc. Sidey Austin Brown & Wood SAA West Fifth Street Los Angeles, California 90013-1016

and direct all future correspondence to the above address; and refer all telephone communications to Edward G. Poplaweld at (213) 808-8801.

CEDARA-TINA MUNICAL CENTRE

2001 Dated: May 2. 27

Senier Vice President for Legal Affairs and General

Counsel

ASSIGNMENT

WHEREAS, Daniel H. Cohn of Santa Monica, CA, Muhammad Faiyaz ul Haque of Islamabad, Pakistan, Lily M. King of Los Angeles, CA, and Deborah Krakow of Los Angeles, CA., Assignors, have invented a new and useful GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL DYSPLASIA for which an application for United States Letters Patent, Serial No. 09/399,212, filed September 17, 1999, was executed by them on or about the same date as this Assignment; and

WHEREAS, Assignors believe themselves to be the original, first and joint inventors of the invention disclosed and claimed in the application for Letters Patent; and

WHEREAS, CEDARS-SINAI MEDICAL CENTER, a California non-profit organization, having a place of business at 8700 Beverly Boulevard, Los Angeles, CA 90048-1869, Assignee, desires to acquire by formal, recordable assignment the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world;

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) and of other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby sell, assign and transfer to Assignee, the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world, including the right to file foreign applications directly in the name of Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

Further, Assignors agree that, upon request and without further compensation, but at no expense to Assignor, they and their legal representatives and assigns will perform all lawful acts, including the execution of papers and the giving of testimony, that might be necessary or desirable for obtaining, sustaining, reissuing or enforcing Letters Patent in the United States and throughout the world for the invention, and for perfecting, recording or maintaining the title of Assignee, its successors and assigns, to the invention, the application, and any Letters Patent granted for the invention in the United States and throughout the world.

Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted by this Assignment.

Assignors authorize and request the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for the invention, whether on the application or on any subsequently filed division, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in the invention.

IN WITNESS WHEREOF, Assignors have executed this Assignment.

Assignors

Date: 11/149	Dal H Cc
Date: 11/17/99	
Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Defort Krakow
Date:	-
State of <u>alyania</u>) County of of angles	

On this 19th day of November, in the year of 1999, before me personally appeared **Daniel H. Cohn**, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged to me that he executed it.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year of this certificate first above written.

Notary Public in and for Said
County and State

JUNE-BLEN MILLER
Commission #1149316
Notary Public - California
Las Angeles County
My Comm. Expires Aug 25, 2001

State of)	
) ss.	
County of)	
On this	day of	, in the year of 1999, before me personally
appeared Muhami	mad Faiyaz ul Haq	ue, personally known to me or proved to me on the basis
of satisfactory evid	lence to be the perso	on whose name is subscribed to this instrument, and
acknowledged to n	ne that he executed i	it.
IN WITNE	SS WHEREOF, I h	ave hereunto set my hand and affixed my official seal the
day and year of thi	s certificate first abo	ove written.
	Notary Pub	olic in and for Said

County and State

On this 17 day of November, in the year of 1999, before me personally appeared Lily M. King, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged to me that he executed it.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year of this certificate first above written.

State of <u>California</u>

) ss.

County of Las angeles

On this/ 7 day of ______, in the year of 1999, before me personally appeared **Deborah Krakow**, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged to me that he executed it.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year of this certificate first above written.

Ellen Miller

Notary Public in and for Said

County and State

JUNE-BLEN MILLER
Commission #1149316
Notary Public - California
Los Angeles County
My Comm. Expires Aug 25, 2001

Notary Public in and for Said

County and State

JUNE- ELLEN MILLER
Commission #1149316
Notary Public - California
Los Angeles County
My Comm. Expires Aug 25, 2001

ASSIGNMENT

WHEREAS, Daniel H. Cohn of Santa Monica, CA, Muhammad Faiyaz ul Haque of Islamabad, Pakistan, Lily M. King of Los Angeles, CA, and Deborah Krakow of Los Angeles, CA., Assignors, have invented a new and useful GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL DYSPLASIA for which an application for United States Letters Patent, Serial No. 09/399,212, filed September 17, 1999, was executed by them on or about the same date as this Assignment; and

WHEREAS, Assignors believe themselves to be the original, first and joint inventors of the invention disclosed and claimed in the application for Letters Patent; and

WHEREAS, CEDARS-SINAI MEDICAL CENTER, a California non-profit organization, having a place of business at 8700 Beverly Boulevard, Los Angeles, CA 90048-1869, Assignee, desires to acquire by formal, recordable assignment the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world;

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) and of other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby sell, assign and transfer to Assignee, the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world, including the right to file foreign applications directly in the name of Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

Further, Assignors agree that, upon request and without further compensation, but at no expense to Assignor, they and their legal representatives and assigns will perform all lawful acts, including the execution of papers and the giving of testimony, that might be necessary or desirable for obtaining, sustaining, reissuing or enforcing Letters Patent in the United States and throughout the world for the invention, and for perfecting, recording or maintaining the title of Assignee, its successors and assigns, to the invention, the application, and any Letters Patent granted for the invention in the United States and throughout the world.

Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted by this Assignment.

Assignors authorize and request the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for the invention, whether on the application or on any subsequently filed division, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in the invention.

IN WITNESS WHEREOF, Assignors have executed this Assignment.

Assignors	\wedge
Date: 5th November, 1999 Date:	M.M.J.
Date:	
Date:	
State of) County of)	
appeared Daniel H. Cohn , personally known evidence to be the person whose name is stated that he executed it.	, in the year of 1999, before me personally wn to me or proved to me on the basis of satisfactory ubscribed to this instrument, and acknowledged to me hereunto set my hand and affixed my official seal the written.
Notary Public	

State of Illingin)			
State of <u>Illingin</u>) State of <u>Corh</u> County of <u>Corh</u>			
On this 5 th day of North in the year of 1999, before me personally			
appeared Muhammad Faiyaz ul Haque, personally known to me or proved to me on the basis			
of satisfactory evidence to be the person whose name is subscribed to this instrument, and			
acknowledged to me that he executed it.			
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the			
day and year of this certificate first above written.			
Notary Public in and for Said County and State OFFICIAL SEAL Many Page and State OFFICIAL SEAL MOMBE & COUNTY SEAL MY CO			
State of)) ss.			
County of)			
On this day of, in the year of 1999, before me personally appeared Lily M. King, personally known to me or proved to me on the basis of satisfactory			
evidence to be the person whose name is subscribed to this instrument, and acknowledged to me			

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year of this certificate first above written.

that he executed it.